

Appl. No. 10/029,663  
Amdt date August 13, 2003  
Reply to Office action of January 15, 2003

**Amendments to the Specification:**

Due to the number and nature of the amendments, a Substitute Specification showing the changes made to the immediate prior version pursuant to revised 37 C.F.R. 1.121 is submitted herewith to facilitate the prosecution of this application. Additionally, Applicant also submits herewith, a clean copy of the Substitute Specification pursuant to 37 C.F.R. § 1.125.

Applicant respectfully requests that the Substitute Specification with changes be entered in this case.



SUBSTITUTE SPECIFICATION  
(Clean Copy)

1 41419/VG00622

CLEMATIS PLANT NAMED 'VANSO'

RECEIVED  
AUG 19 2003

5 CLASSIFICATION

OFFICE OF PETITIONS

The present invention relates to a new Clematis plant.

VARIETY DENOMINATION

The new plant has the varietal denomination 'VANSO'.

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BACKGROUND OF THE INVENTION

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The present invention relates to a new Clematis plant having the varietal denomination 'VANSO'. 'VANSO' was discovered as a natural branch mutation of the variety 'MRS. CHALMONDELEY', not known to be patented.

SUMMARY OF THE INVENTION

20

The new variety is a Clematis plant with a climbing habit distinguished by production of fully double flowers. Asexual reproduction of the new variety as performed by softwood cuttings in Boskoop, The Netherlands has confirmed that the distinguishing characteristics of the new variety are transmitted through succeeding generations and asexually reproduced plants of the new variety reproduce true-to-type.

25

COMPARISON WITH PARENT

The new variety differs from its parent, 'MRS. CHALMONDELEY', in producing flowers which are fully double; whereas flowers of the parent variety are single.

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## BRIEF DESCRIPTION OF ILLUSTRATIONS

5 The accompanying illustrations depict plants of the new variety in color as true as possible in color photographic illustrations of this nature.

FIG. 1 shows the plant of the new variety with a cluster of flowers; and

FIG. 2 shows a close up of the flower of the new variety.

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## DETAILED DESCRIPTION OF THE NEW VARIETY

15 The following is a description of the new variety taken from 2-year-old plants grown out-of-doors in 5 liter containers in Boskoop, The Netherlands during the month of June. Color designations used herein are from THE ROYAL HORTICULTURAL SOCIETY COLOUR CHART ("RHSC").

## PLANT

20 The plant grows in a climbing habit and attains a height of slightly more than 2 M. with an average diameter of about 35 cm. and with vigorous growth.

## FOLIAGE

25 Size: About 5 cm. to 8 cm. long and up to about 4.8 cm. wide.

Quantity: About 6 leaves (3 pairs of opposite leaves) per about 15 cm. stem.

## Leaf

30 Average length: About 15.3 cm.

Average width: About 9.3 cm.

Average length

of leaflets: About 5 to 8 cm.

Average width

35 of leaflets: About 2.7 to 4.8 cm.

	Leaflet apex:	Apiculate
	Leaflet base:	Attenuate to acuminate
5	Average petiole length:	About 7.5 cm.
	Average petiole width:	About 2 mm.
	Color	
10	Immature foliage	
	Upper side:	Between 141A and 143A
	Underside:	Between 146A and 146B
	Mature foliage	
	Upper side:	Near 137A
15	Under side:	Between 137B and 137C
	Shape:	Trifoliolate - leaflets are ovate to narrow ovate
	Texture	
20	Upper side:	Smooth
	Under side:	Smooth
	Venation:	Anastomosing
	Edge:	Smooth with no serration observed.
	Petiole color	
25	Top surface:	Near 166A
	Under side:	Between 143A and 141B
	Stipules:	No stipules observed
	Auricles:	No auricles observed
	Rachis:	Smooth
30	STEM	
	Average length:	About 90 cm.
	Average width:	About 3 mm.
	Texture:	Smooth, slightly glossy

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Aspect: Ribbed lengthways with an average of 6 ribs

5 Average internode length: About 12.6 cm.

Color of young stem: Near 143A to 143C to 144A

**WOOD**

10 Color: Color of new wood near 143A and 143C to 144A; color of old wood near 175A to 175B

Bark: Bark has short pale greyish hairs

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**FLOWER:** Not for use as a cut flower

Color: Clear blue double flowers

Shape of buds: Ovate

Average length of buds: About 2.4 cm.

20 Average width of buds: About 1.4 cm.

Color of buds: Near 145A, with lighter axial stripes; near 145D

Average number of flowers and buds

25 per plant per season: 7

Flower shape: Round

Average flower

diameter: About 16.1 cm.

Average flower depth: About 6.7 cm.

30 Fragrance: Very faint, sweet

Tepals

Average number: 6 (occasionally 7 or 8)

Average length: About 8 cm.

Average width: About 4.9 cm.

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	Shape:	Obovate
	Apex:	Mucronulate
5	Base:	Cuneate
	Margin:	Entire
	Color of tepal when young	
10	Upper side:	Violet-blue; near 92A, tip and central band near the tip near 71B to 71C
	Under side:	Violet-blue; near 90D, with a broad central band near 145C to 145D (with a slight touch of violet-blue)
15	Color of tepal when mature	
	Upper side:	Violet-blue; near 91B with a lighter center near 91D and a small blotch near 71C to 71D at the tip
20	Under side:	Violet-blue; near 91C; margins darker; near 91B and a broad central band near 145C to 145D
25	Petaloids:	The flowers have no sepals, only petaloids
	Average number:	About 325
	Average length:	About 4.2 cm.
	Average width:	
30	Outer (wider):	About 1.8 cm.
	Inner (Narrower):	About 4.5 mm.

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**SUBSTITUTE SPECIFICATION  
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	Shape	
	Outer:	Obovate
5	Inner:	Linear
	Apex	
	Outer:	Rounded to praemorse
	Inner:	Acute
	Base:	Cuneate
10	Margin:	Entire
	Color when young	
	Upper side:	Outer petaloids violet-blue near 92A; tip violet near 86B; inner petaloids violet near 86B to 86C
15	Under side:	Outer petaloids violet-blue near 90D, with a broad central band near 145C to 145D; inner petaloids violet-blue near 91D
	Color when mature	
20	Upper side:	Outer petaloids violet-blue near 91A with a lighter center near 91B to 91C; inner petaloids violet-blue near 92A
25	Under side:	Outer petaloids violet-blue near 91C to 91D, margins darker near 91B and a central blotch near 145D; inner petaloids violet-blue near 91D
30	Average flower lastingness of individual flower:	20 days
	Time to produce a flowering plant:	12 months
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SUBSTITUTE SPECIFICATION  
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Natural flowering  
season: June to September in Boskoop,  
5 The Netherlands

Flowers completely double; all reproductive organs  
transformed into petaloid. No pollen is formed, no stigmas  
present, no seed is produced.

10 WINTER HARDINESS: Winter hardy in USDA Zone 5

RESISTANCE TO DISEASE: No more susceptible to disease  
15 than its parent variety or other  
similar varieties.

BREEDING: Asexual reproduction was started  
from softwood cuttings during the  
summer months in tunnels.  
20 Natural mutation was observed  
when one branch of the parent  
variety flowered with double  
flowers. This mutation branch  
was then propagated by softwood  
cuttings.

STAMENS, FILAMENTS & ANTERS  
30 Arrangement: Flowers are completely double, so  
no stamens, styles, etc. are  
visibly present. No seed  
formation observed.

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**SUBSTITUTE SPECIFICATION  
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I CLAIM:

A new Clematis plant of the variety substantially as shown  
5 and described.

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**SUBSTITUTE SPECIFICATION  
(Clean Copy)**

CLEMATIS PLANT NAMED 'VANSO'

5 ABSTRACT

Described as a new variety of Clematis which produces fully doubled flowers of attractive coloration.

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## CLEMATIS PLANT NAMED 'VANSO'

## LATIN NAME OF GENUS

The botanical classification of the new Clematis plant is *Clematis* hybrid.

## 5 VARIETY DENOMINATION

The new plant has the varietal denomination 'VANSO'.

## BACKGROUND OF THE INVENTION

The present invention relates to a new Clematis plant having the varietal denomination 'VANSO'. 'VANSO' was discovered 10 as a natural branch mutation of the variety 'MRS. CHALMONDELEY', not known to be patented.

## SUMMARY OF THE INVENTION

The new variety is a Clematis plant with a climbing habit distinguished by production of fully double flowers. Asexual 15 reproduction of the new variety as performed by softwood cuttings in Boskoop, The Netherlands has confirmed that the distinguishing characteristics of the new variety are transmitted through succeeding generations and asexually reproduced plants of the new variety reproduce true-to-type.

## 20 COMPARISON WITH PARENT

The new variety differs from its parent, 'MRS. CHALMONDELEY', in producing flowers which are fully double; whereas flowers of the parent variety are single.

## BRIEF DESCRIPTION OF ILLUSTRATIONS

25 The accompanying illustrations depict plants of the new variety in color as true as possible in color photographic illustrations of this nature.

FIG. 1 shows the plant of the new variety with a cluster of flowers; and

FIG. 2 shows a close up of the flower of the new variety.

#### DETAILED DESCRIPTION OF THE NEW VARIETY

5 The following is a description of the new variety taken from 2-year-old plants grown out-of-doors in 5 liter containers in Boskoop, The Netherlands during the month of June. Color designations used herein are from THE ROYAL HORTICULTURAL SOCIETY COLOUR CHART ("RHSC"). The age of the plants used for  
10 the description is 2 years and were grown in 5 litre containers.

#### PLANT

The plant grows in a climbing habit and attains a height of slightly more than 2 M. with an average diameter of about 35 cm. and with vigorous growth.

15 FOLIAGE

	Size:	About 5 cm. to 8 cm. long, up to about 4.8 cm. wide; diameter approximately 35 cm.
20	Quantity:	About 6 leaves (3 pairs of opposite leaves) per about 15 cm. stem.
	Leaf	
	Average length:	About 15.3 cm.
	Average width:	About 9.3 cm.
25	Average length of leaflets:	About 5 to 8 cm; average about 6.2 cm.
	Average width of leaflets:	About 2.7 to 4.8 cm; average about 3.2 cm.

	Leaflet apex:	Apiculate
	Leaflet base:	Attenuate to acuminate
	Average petiole length:	About 7.5 cm.
5	Average petiole width:	About 2 mm.
	Color	
	Immature foliage	
	Upper side:	Between R.H.S.-CC 141A and 143A
10	Underside:	Between R.H.S.-CC 146A and 146B
	Mature foliage	
	Upper side:	Near 137A
	Under side:	Between R.H.S.-CC 137B and 137C
	Shape:	Trifoliolate - leaflets are ovate to narrow ovate
15	Texture	
	Upper side:	Smooth
	Under side:	Smooth
	Venation:	Anastomosing
20	Edge:	Smooth with no serration observed.
	Petiole color	
	Top surface:	Near 166A
	Under side:	Between R.H.S.-CC 143A and 141B
25	Stipules:	No stipules observed
	Auricles:	No auricles observed
	Rachis:	Smooth
	STEM	
	Average length:	About 90 cm.
30	Average width:	About 3 mm.
	Texture:	Smooth, slightly glossy

	Aspect:	Ribbed lengthways with an average of 6 ribs
	Average internode length:	About 12.6 cm.
5	Color of young stem:	Near R.H.S.-CC 143A to 143C to 144A
WOOD		
10	Color:	Color of new wood green to yellow green - near R.H.S.-CC 143A and 143C to 144A; color of old wood greyed-orange - near R.H.S.-CC 175A to 175B
15	Bark:	Bark has short pale greyish hairs
FLOWER:		
20	Color:	Clear blue double flowers
	Shape of buds:	Ovate
	Average length of buds:	About 2.4 cm.
	Average width of buds:	Abpt 1.4 cm.
	Color of buds:	Yellow-green, near R.H.S.-CC 145A, with lighter axial stripes near R.H.S.-CC 145D.
25	Average number of flowers and buds per plant per season:	7
	Flower shape:	Rotate
30	Average flower diameter:	About 16.1 cm.
	Average flower depth:	About 6.7 cm.

	Fragrance:	Very faint, sweet
	Tepals	
	Average number:	6 (occasionally 7 or 8)
	Average length:	About 8 cm.
5	Average width:	About 4.9 cm.
	Shape:	Obovate
	Apex:	Mucronulate
	Base:	Cuneate
	Margin:	Entire
10	Color of tepal when young	
	Upper side:	Violet-blue; near R.H.S.-CC 92A, tip and central band near the tip near R.H.S.-CC 71B to 71C
15	Under side:	Violet-blue; near R.H.S.-CC 90D, with a broad central band near R.H.S.-CC 145C to 145D (with a slight touch of violet-blue)
20	Color of tepal when mature	
	Upper side:	Violet-blue; near R.H.S.-CC 91B with a lighter center near R.H.S.-CC 91D and a small blotch near R.H.S.-CC 71C to 71D at the tip
25	Under side:	Violet-blue; near R.H.S.-CC 91C; margins darker; near R.H.S.-CC 91B and a broad central band near R.H.S.-CC 145C to 145D
30	Tepaloids:	
	Average number:	About 325

	Average length:	About 4.2 cm.
	Average width:	
	Outer	
	(wider):	About 1.8 cm.
5	Inner	
	(Narrower):	About 4.5 mm.
	Shape	
	Outer:	Obovate
	Inner:	Linear
10	Apex	
	Outer:	Rounded to praemorse
	Inner:	Acute
	Base:	Cuneate
	Margin:	Entire
15	Color when young	
	Upper side:	Outer tepaloids violet-blue near R.H.S.-CC 92A; tip violet near R.H.S.-CC 86B; inner tepaloids violet near R.H.S.-CC 86B to 86C
20	Under side:	Outer tepaloids violet-blue near R.H.S.-CC 90D, with a broad central band near R.H.S.-CC 145C to 145D; inner tepaloids violet-blue near R.H.S.-CC 91D
25	Color when mature	
	Upper side:	Outer tepaloids violet-blue near R.H.S.-CC 91A with a lighter center near R.H.S.-CC 91B to 91C; inner tepaloids violet-blue near R.H.S.-CC 92A
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Under side: Outer tepaloids violet-blue near  
R.H.S.-CC 91C to 91D, margins  
darker near R.H.S.-CC 91B and a  
central blotch near R.H.S.-CC  
145D; inner tepaloids violet-blue  
near 91D

Average flower  
lastingness of  
individual flower: 20 days

Time to produce  
a flowering plant: 12 months

Natural flowering  
season: June to September in Boskoop,  
The Netherlands

Flowers completely double; all reproductive organs  
transformed into tepaloids. No pollen are formed, no anthers,  
stigmas, or pistils are present, no fruits or seeds are  
produced.

WINTER HARDINESS: Winter hardy in USDA Zone 5

RESISTANCE TO DISEASE: No more susceptible to disease  
than its parent variety or other  
similar varieties.

BREEDING: Asexual reproduction was started  
from softwood cuttings during the  
summer months in tunnels.  
Natural mutation was observed  
when one branch of the parent

variety flowered with double flowers. This mutation branch was then propagated by softwood cuttings.

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STAMENS, FILAMENTS & ANTERS

Arrangement: Flowers are completely double, so no stamens, styles, etc. are visibly present. No seed formation observed.

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**SUBSTITUTE SPECIFICATION**  
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I CLAIM:

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Described as a new variety of Clematis which produces fully  
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